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In the Subject Index, pages 2944–2952, each technical paper is listed under a maximum of three appropriate headings. Note the locating number in boldface type preceding each paper title, and use that number to find the paper in the Chronological Index. The Author Index, pages 2953–2955, lists all authors associated with a given technical paper. The locating numbers are identical to those in the Subject Index. The Chronological Index, pages 2956–2964, also lists all papers by their locating numbers. This listing contains titles, authors and their affiliations, and volume, issue number, and page where the paper appeared. It also gives the AIAA paper number, if any, on which the article was based. The Book Review Index is listed on page 2964. Comments, Replies, and Errata are listed directly beneath the paper to which they refer. If the paper to which they refer was published prior to 2012, that paper also will appear in both the Subject and Chronological Indexes. Authors of Comments also are listed in the Author Index.

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J12-180 Turbulent Flows of an Acoustically Excited Elevated Transverse Jet

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J12-080 Fluidic Control of Aerodynamic Forces on a Bluff Body of Revolution
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J12-167 Numerical Simulation of Air-He Shock Tube Flow with Equilibrium Air Model

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J12-106 Numerical Dissipation Effects on Massive Separation Around Tandem Cylinders
J12-146 Passive Control of High-Speed Separated Flows Using Splitter Plates
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J12-080 Fluidic Control of Aerodynamic Forces on a Bluff Body of Revolution
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J12-033 Fluidic Control of a Wing Tip Vortex
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J12-215 Acoustic Effect of Chevrons on Supersonic Jets Exiting Conical Convergent-Divergent Nozzles
J12-217 Numerical Simulations of Successive Distortions in Supersonic Turbulent Flow
J12-160 Flowfield Characteristics of a Hypermixer Interacting with Transverse Injection in Supersonic Flow
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J12-053 Risk Assessment of Scramjet Unstart Using Adjoint-Based Sampling Methods
J12-110 Interaction of Shocks and Vortices in a Highly Underexpanded Supersonic Impinging Jet
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J12-021 Control of a Shock/Boundary-Layer Interaction by Using a Pulsed-Plasma Jet Actuator
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J12-258 Towards Designing with Three-Dimensional Bumps for Lift/Drag Improvement and Buffet Alleviation
J12-238 Scaling Analysis for Aeroelastic Phenomena Using the Navier-Stokes Fluid Model
J12-095 Flow Similarity in Compressible Convex-Corner Flows
J12-084 Reynolds-Averaged Navier-Stokes Study of the Shock-Buffet Instability Mechanism
J12-257 Further Studies of Airfoils Supporting Non-Unique Solutions in Transonic Flow
J12-052 Improvements and Extensions to a Full-Potential Formulation Based on Independent Fields
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J12-220 High-Order Accurate Incompressible Navier-Stokes Algorithm for Vortex-Ring Interactions with Solid Wall
J12-221 Trailing-Edge Noise Predictions Using Compressible Large-Eddy Simulation and Acoustic Analogy
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J12-154 Use of Blowing Flow Control to Reduce Bluff Body Interaction Noise
J12-151 Source Advection Effects on Unsteady-Surface-Pressure Asymmetry in Oblique Impinging Jets
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J12-262 Thrust and Aerodynamic Forces from an Oscillating Leading Edge Flap
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J12-106 Numerical Dissipation Effects on Massive Separation Around Tandem Cylinders
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J12-069 Periodic Unsteady Flow Analysis Using a Diagonally Implicit Harmonic Balance Method
J12-008 Comparison of Unsteady Pressure-Sensitive Paint Measurement Techniques
J12-037 Eddy-Preserving Limiter for Unsteady Subsonic Flows
J12-024 Numerical Analysis of a Rotating Cylinder with Spanwise Disks
J12-010 Effect of Plasma-Based Control on Low-Reynolds-Number Flapping Airfoil Performance
J12-014 Validation of Unsteady Reynolds-Averaged Navier-Stokes Simulations on Three-Dimensional Flapping Wings
J12-004 Wall Pressure Unsteadiness and Side Loads in Overexpanded Rocket Nozzles

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J12-220 High-Order Accurate Incompressible Navier-Stokes Algorithm for Vortex-Ring Interactions with Solid Wall
J12-237 Turbulence of a Fin Trailing Vortex in Subsonic Compressible Flow
J12-259 Tomographic Particle Image Velocimetry Measurements in a Bluff-Body Wake Flow
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J12-255 Combined Feature-Driven Richardson-Based Adaptive Mesh Refinement for Unsteady Vortical Flows
J12-007 Flow Topology Around Gas, Liquid and Three-Dimensional Obstacles in Hypersonic Flow
J12-090 Effects of Flow Structure Dynamics on Thermoacoustic Instabilities in Swirl-Stabilized Combustion
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J12-111 Dynamics and Performance of Tailless Micro Aerial Vehicle with Flexible Articulated Wings

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J12-125 Modeling of Electrodynamic Zero-Net Mass-Flux Actuators

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J12-011 Resonant Vibration Control of Three-Bladed Wind Turbine Rotors

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J12-011 Resonant Vibration Control of Three-Bladed Wind Turbine Rotors
J12-107 Piezoelectric-Based Vibration Reduction of Turbomachinery Bladed Disks via Resonance Frequency Detuning

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J12-224 Unsteady Adjoint Approach for Design Optimization of Flapping Airfoils
J12-017 Dynamic Response Topology Optimization in the Time Domain Using Equivalent Static Loads
J12-091 Gappy Proper Orthogonal Decomposition-Based Two-Step Optimization for Airfoil Design
J12-175 Robust Airfoil Optimization Using Maximum Expected Value and Expected Maximum Value Approaches

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J12-012 Aeroelastic Analysis of a Composite Material Delta Wing in Low Subsonic Flow

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J12-165 Solution of Nonlinear Vibration Problem of a Prestressed Membrane by Adomian Decomposition

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J12-061 Aero-Optical Effects of Supersonic Boundary Layers
J12-063 Rayleigh Scattering Density Measurements, Cluster Theory, and Nucleation Calculations at Mach 10
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J12-089 Aeroelastic Optimization of Flapping Wing Venation: A Cellular Division Approach
J12-103 Provably Convergent Multifidelity Optimization Algorithm Not Requiring High-Fidelity Derivatives
J12-057 Continuous Adjoint Approach for the Spalart-Allmaras Model in Aerodynamic Optimization

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J12-211 Exact Shear-Lag Solution for Guided Waves Tuning with Piezoelectric-Wafer Active Sensors
J12-025 Online Guided Wave-Based Debonding Detection in Honeycomb Sandwich Structures
J12-073 Single-Sensor Identification of Spinning Mode Noise from Aircraft Engine
J12-248 Characterization of Aeroacoustic, Silicon Micromachined Microphones for Aircraft Fuselage Arrays

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J12-260 High-Speed Rarefied Round Jet and Jet Impingement Flows

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J12-017 Dynamic Response Topology Optimization in the Time Domain Using Equivalent Static Loads

J12-219 Surrogate-Based Optimum Design for Stiffened Shells with Adaptive Sampling

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J12-130 Modeling of Two-Stage Ejector for High-Altitude Testing of Satellite Thrusters

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J12-201 Role of Thermal Contact Conductance on Sandwich-Type Metallic Thermal Protection System Profile

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J12-055 How Much Compression Should a Scramjet Inlet Do?

J12-161 Disruption of Volatile and Nonvolatile Droplets Under Locally Supersonic Conditions

J12-162 Formation and Structure of Steady Oblique and Conical Detonation Waves

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J12-107 Piezoelectric-Based Vibration Reduction of Turbomachinery Bladed Disks via Resonance Frequency Detuning

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J12-047 Aeroelastic Scaling of a Joined Wing for Nonlinear Geometric Stiffness
J12-072 Cell Geometry and Material Property Effects on Membrane and Flow Response
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J12-231 Compression Response of Fluted-Core Composite Panels
J12-200 Low-Velocity Impact and Residual Burst-Pressure Analysis of Cylindrical Composite Pressure Vessels
J12-140 Optimization and Antioptimization of Buckling Load for Composite Cylindrical Shells Under Uncertainties
J12-168 Multimaterial Arbitrary-Lagrangian-Eulerian Formulation for Blast-Induced Fluid-Structure Interaction in Fiber-Metal Laminates
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J12-025 Online Guided Wave-Based Debonding Detection in Honeycomb Sandwich Structures
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J12-088 Fundamental Frequencies of Elliptical Composite Cylinders with Circumferentially Varying Fiber Orientation
J12-123 Design and Testing of Pressurized Cellular Planar Morphing Structures
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J12-121 Advances in Bounding Techniques for Aircraft Structures
J12-047 Aeroelastic Scaling of a Joined Wing for Nonlinear Geometric Stiffness

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J12-118 Analysis of a Thin-walled Beam with a Crack of Random Location and Size
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J12-165 Solution of Nonlinear Vibration Problem of a Prestressed Membrane by Adomian Decomposition
J12-242 Automated, Real-Time Health Monitoring of Structures for Interplanetary Exploration Systems
J12-027 Reduced-Order Modeling for Nonlinear Analysis of Cracked Mistuned Multistage Bladed-Disk Systems
J12-070 Consideration of Wear at High Velocities Using a Hydrocode
J12-097 Chebyshev-Ritz Approach to Buckling and Vibration of Curvilinearly Stiffened Plate
J12-102 Structural Damage Detection Using Generalized Flexibility Matrix and Changes in Natural Frequencies
J12-018 Finite Element Free Vibration Analysis of Soft-Core Sandwich Beams
J12-056 Vibration Analysis of Composite Sandwich Plates by the Generalized Differential Quadrature Method
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